International Journal of Man-Machine Studies

Volume 15, 1981

Executive Editors

B. R. Gaines and D. R. Hill

Editorial Board

J. H. Andreae
M. A. Arbib
J. S. Brown
J. L. Gedye
P. Hájek
J. Hatvany
W. Jassem
G. J. Klir
V. A. Lvov
E. H. Mamdani
M. Nowakowska
G. Pask
B. Shackel
M. L. G. Shaw
M. E. Sime
D. H. Sleeman
R. D. Smallwood
I. Witten
K. L. Zinn
P. I. Zorkoczy

Academic Press

London New York San Francisco

A Subsidiary of Harcourt Brace Jovanovich, Publishers

ISSN 0020-7373

Contents of Volume 15

NUMBER 1, JULY 1981

Editorial 1

Moran, T. P. The Command Language Grammar: a representation for the user interface of interactive computer systems 3

Young, R. M. The machine inside the machine: users' models of pocket calculators 51

Barnard, P. J., Hammond, N. V., Morton, J., Long, J. B. and Clark, I. A. Consistency and compatibility in human–computer dialogue . . . 87

Book review 135

NUMBER 2, AUGUST 1981

Baron, R. J. Mechanisms of human facial recognition 137

Ibrahim, R. L. R. A computer system for axiomatic investigation . . 179

Czogała, E. and Pedrycz, W. Some problems concerning the construction of algorithms of decision-making in fuzzy systems 201

Fox, J. Towards a reconciliation of fuzzy logic and standard logic . . 213

Pinkava, V. Classification in medical diagnostics: on some limitations of Q-analysis 221

Johnson, J. H. A critique of the paper "Classification in medical diagnostics: on some limitations of Q-analysis" by V. Pinkava 239

Call for papers 249

NUMBER 3, OCTOBER 1981

Introduction 251

Havránek, T. The present state of the GUHA software 253

Havránek, T. The GUHA method in the context of data analysis . . 265

Rauch, J. Main problems and further possibilities of the computer realization of GUHA procedures 283

Pokorný, J. and Rauch, J. The GUHA–DBS Data Base System . . 289

Vlček, V. An application of the GUHA method to chemical engineering . 299

Iványek, J. Some examples of transforming ordinal data to an input for GUHA-procedures 309

Springsteel, F. Complexity of hypothesis formation problems . . . 319

Havránek, T. Formal systems for mechanized statistical inference . . 333

Hájek, P. Decision problems of some statistically motivated monadic modal calculi 351

Announcements 359

NUMBER 4, NOVEMBER 1981

Hoc, J. M. Planning and direction of problem solving in structured programming: an empirical comparison between two methods 363

Hisdal, E. The IF THEN ELSE statement and interval-valued fuzzy sets of higher type 385

Johnson, J. H. The Shomotopy Bottle of Q-analysis 457

Edmonds, E. A. Domains of interest in fuzzy sets 461

Nickerson, R. S. Why interactive computer systems are sometimes not used by people who might benefit from them 469

Copyright © 1981 by Academic Press Inc. (London) Ltd.

ALL RIGHTS RESERVED

No part of this volume may be reproduced in any
form, by photostat, microfilm, or any other means,
without written permission from the publishers.

Printed in Great Britain